



Reflection Light Sensor PSM-270



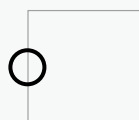
Outline

An edge and a line mark of the Web can be detected by placing PSM-270 on a roll. Meandering of a web is corrected in combination with a controller and an actuator.

Feature

- Since it is high sensitivity, it is detectable even if contrast is low.
- Since the web plane on a roll can be seen when operating a set switch, teaching can be performed easily.
- Gap of the film from a set position can be checked by lighting of LED.

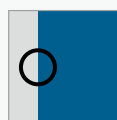
Detection Object



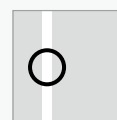
Transparent
Web Edge



Opaque
Web Edge



Boundary



Line mark in a
transparent web



Line mark in an
opaque web

※ A black roll or etc.
(with no gloss) are used

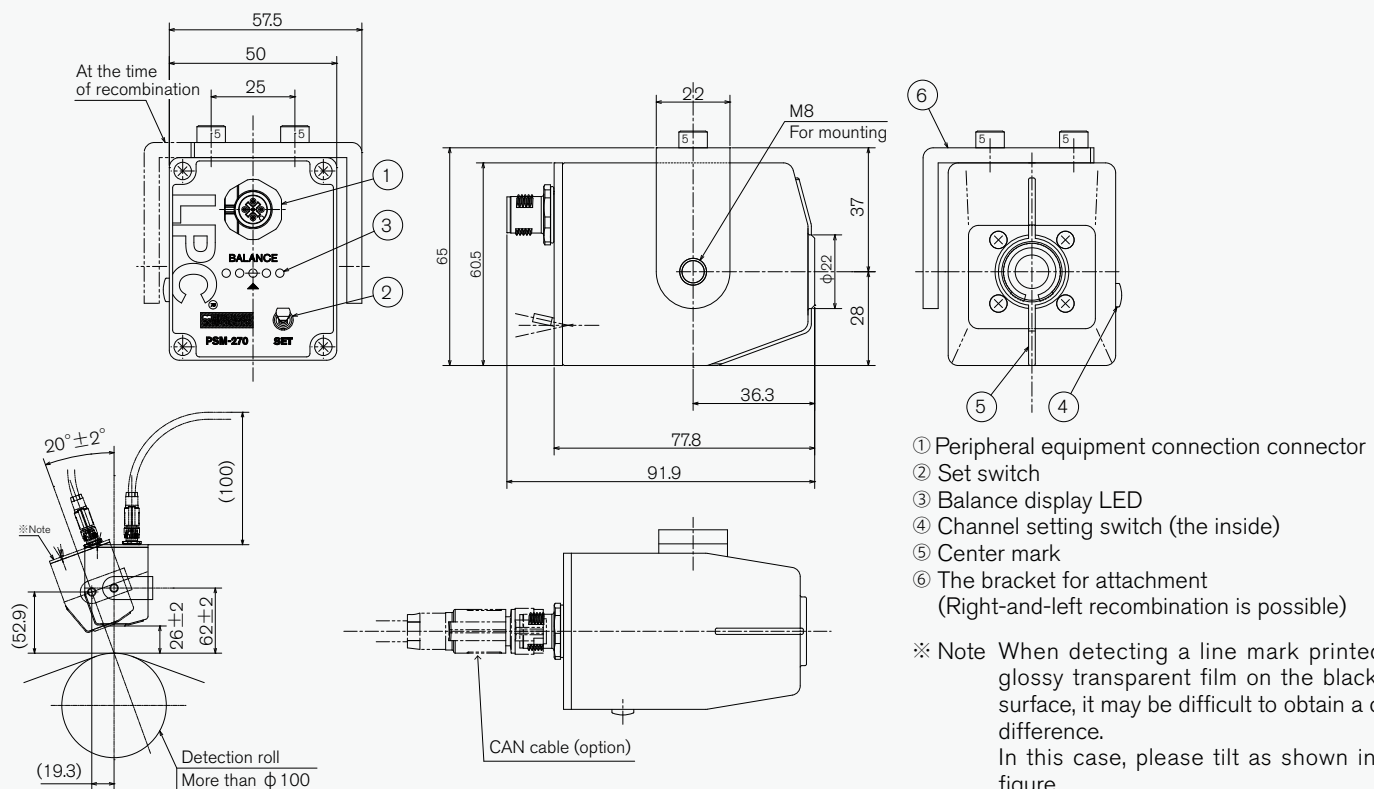


Technical Data

External Dimension	Refer to outline drawing
Power Source	DC24V \pm 20%(It supplies through McBus) ※ 1
Consumption Current	50mA (Power Supply Voltage DC24V)
Installation Environment	Temperature : 0 ~ 40 °C , Humidity : 80%Rh or less (No condensation)
Mass	About 350g
Detection Object	Web Edge , Boundaries (Printed Edge, etc.), Line Mark ※ 2
Detection System	Photoelectric reflective type
Detection Distance	26mm \pm 2mm (Distance between a detector tip and a roll surface)
Detection Range	about ϕ 6
Light Source	White Light Emitting Diode
Light Receiving Element	Photodiode

- ※ 1 McBus: The network for connecting the controller and drive machine of LPC
- ※ 2 Please locate the detector on a roll. To detect edge or a transparent web, note is required for the contrast of a roll surface and a detection object.

Outline Drawing



Installing position of PSM-270 (S=1/3)

- ※ Note When detecting a line mark printed on glossy transparent film on the black roll surface, it may be difficult to obtain a color difference. In this case, please tilt as shown in the figure
Example: White line on transparent film



Lending “hands” to replace human hands.

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